

L Number	Hits	Search Text	DB	Time stamp
1	1126	((568/674) or (568/615) or (568/616) or (568/654) or (568/649)).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/26 16:08
2	265	hypofluorite	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/26 16:08
3	9	((568/674) or (568/615) or (568/616) or (568/654) or (568/649)).CCLS.) and hypofluorite	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/26 16:18
4	31824	tetrafluoroethylene	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/26 16:19
5	390	dichlorodifluoroethylene	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/26 16:19
6	11	hypofluorite same (tetrafluoroethylene or dichlorodifluoroethylene)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/26 16:44
7	0	(perfluorovinyl adj ether) or (fluorovinyl adj ether)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/26 16:46
8	1593	(perfluorovinyl near2 ether) or (fluorovinyl near2 ether)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/26 16:46
9	3	hypofluorite and ((perfluorovinyl near2 ether) or (fluorovinyl near2 ether))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/26 17:09
10	1	perfluoro adj alkyl adj hypofluorite	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/26 17:11
11	16	perfluoro near5 hypofluorite	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/26 17:11

09/840,527

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NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	Feb 24	PCTGEN now available on STN
NEWS	4	Feb 24	TEMA now available on STN
NEWS	5	Feb 26	NTIS now allows simultaneous left and right truncation
NEWS	6	Feb 26	PCTFULL now contains images
NEWS	7	Mar 04	SDI PACKAGE for monthly delivery of multifile SDI results
NEWS	8	Mar 24	PATDPAFULL now available on STN
NEWS	9	Mar 24	Additional information for trade-named substances without structures available in REGISTRY
NEWS	10	Apr 11	Display formats in DGENE enhanced
NEWS	11	Apr 14	MEDLINE Reload
NEWS	12	Apr 17	Polymer searching in REGISTRY enhanced
NEWS	13	AUG 22	Indexing from 1927 to 1936 added to records in CA/CAPLUS
NEWS	14	Apr 21	New current-awareness alert (SDI) frequency in WPIDS/WPINDEX/WPIX
NEWS	15	Apr 28	RDISCLOSURE now available on STN
NEWS	16	May 05	Pharmacokinetic information and systematic chemical names added to PHAR
NEWS	17	May 15	MEDLINE file segment of TOXCENTER reloaded
NEWS	18	May 15	Supporter information for ENCOMPPAT and ENCOMPLIT updated
NEWS	19	May 19	Simultaneous left and right truncation added to WSCA
NEWS	20	May 19	RAPRA enhanced with new search field, simultaneous left and right truncation
NEWS	21	Jun 06	Simultaneous left and right truncation added to CBNB
NEWS	22	Jun 06	PASCAL enhanced with additional data
NEWS	23	Jun 20	2003 edition of the FSTA Thesaurus is now available
NEWS	24	Jun 25	HSDB has been reloaded
NEWS	25	Jul 16	Data from 1960-1976 added to RDISCLOSURE
NEWS	26	Jul 21	Identification of STN records implemented
NEWS	27	Jul 21	Polymer class term count added to REGISTRY
NEWS	28	Jul 22	INPADOC: Basic index (/BI) enhanced; Simultaneous Left and Right Truncation available
NEWS	29	AUG 05	New pricing for EUROPATFULL and PCTFULL effective August 1, 2003
NEWS	30	AUG 13	Field Availability (/FA) field enhanced in BEILSTEIN
NEWS	31	AUG 15	PATDPAFULL: one FREE connect hour, per account, in September 2003
NEWS	32	AUG 15	PCTGEN: one FREE connect hour, per account, in September 2003
NEWS	33	AUG 15	RDISCLOSURE: one FREE connect hour, per account, in September 2003
NEWS	34	AUG 15	TEMA: one FREE connect hour, per account, in September 2003
NEWS	35	AUG 18	Data available for download as a PDF in RDISCLOSURE
NEWS	36	AUG 18	Simultaneous left and right truncation added to PASCAL
NEWS	37	AUG 18	FROSTI and KOSMET enhanced with Simultaneous Left and Right

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# Truncation

NEWS 38 AUG 18 Simultaneous left and right truncation added to ANABSTR

NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT  
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),  
AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003  
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=> file chemistry patent

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=> s perfluoro (5a) hypofluorite#

49 FILES SEARCHED...

L1 54 PERFLUORO (5A) HYPOFLUORITE#

=> dup rem l1

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INVESTEXT, KOSMET, RDISCLOSURE, STANDARDS, USAN, DGENE, DPCI, PCTGEN,  
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L2 43 DUP REM L1 (11 DUPLICATES REMOVED)

=> d 1-43 ti

L2 ANSWER 1 OF 43 IFIPAT COPYRIGHT 2003 IFI on STN DUPLICATE 1  
TI THERMALLY STABLE PERFLUOROPOLYETHERS AND PROCESSES THEREFOR AND THEREWITH

L2 ANSWER 2 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 2  
TI Synthesis of low molecular weight perfluoro oxymethylene vinyl ethers

L2 ANSWER 3 OF 43 BABS COPYRIGHT 2003 BEILSTEIN CDS MDLI on STN  
TI Synthesis of low molecular weight perfluoro oxymethylene vinyl ethers

L2 ANSWER 4 OF 43 PCTFULL COPYRIGHT 2003 Univentio on STN DUPLICATE  
DUPLICATE 3  
TIEN PERFLUOROPOLYETHERS AND PROCESSES THEREFOR AND THEREWITH  
TIFR PERFLUOROPOLYETHERS ET LEURS PROCEDES DE PREPARATION ET D'UTILISATION

L2 ANSWER 5 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN  
TI Process for the synthesis of perfluorosulfonylalkyl hypofluorites

L2 ANSWER 6 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN  
TI Preparation of perfluoroalkyl hypofluorites and their adducts with  
(halo)ethylenes

L2 ANSWER 7 OF 43 CASREACT COPYRIGHT 2003 ACS on STN  
TI Process for the synthesis of perfluorosulfonylalkyl hypofluorites

L2 ANSWER 8 OF 43 CASREACT COPYRIGHT 2003 ACS on STN  
TI Preparation of perfluoroalkyl hypofluorites and their adducts with  
(halo)ethylenes

L2 ANSWER 9 OF 43 PCTFULL COPYRIGHT 2003 Univentio on STN  
TIEN FLUORINE CONTAINING VINYL ETHERS  
TIFR VINYL-ETHERS CONTENANT DU FLUOR

L2 ANSWER 10 OF 43 USPATFULL on STN  
TI Fluorine containing vinyl ethers

L2 ANSWER 11 OF 43 EUROPATFULL COPYRIGHT 2003 WILA on STN  
TIEN Low dissipation-factor fluorocarbon resins and cables prepared  
therefrom.  
TIEN Low dissipation-factor fluorocarbon resins and cables prepared

therefrom.

- L2 ANSWER 12 OF 43 EUROPATFULL COPYRIGHT 2003 WILA on STN  
 TIEN Process for preparing perfluoro-2-methyl-4-methoxypentane.  
 TIEN Process for preparing perfluoro-2-methyl-4-methoxypentane.
- L2 ANSWER 13 OF 43 IFIPAT COPYRIGHT 2003 IFI on STN DUPLICATE 4  
 TI METHOD OF SELECTIVE FLUORINATION; IODINATION OF A METHYLENE PHOSPHONATE OR PHOSPHORANE COMPOUND AT METHYLENE POSITION, REPLACING IODINE BY FLUORINATION WITH ELECTROPHILIC FLUORINATING COMPOUND
- L2 ANSWER 14 OF 43 EUROPATFULL COPYRIGHT 2003 WILA on STN  
 TIEN Perfluoropolyethers having mono and bishypofluorite end groups and process for preparing them.  
 TIEN Perfluoropolyethers having mono and bishypofluorite end groups and process for preparing them.
- L2 ANSWER 15 OF 43 ENCOMPAT2 COPYRIGHT 2003 ELSEVIER ENGINEERING INFORMATION INC. on STN  
 TI High purity perfluoro-2-methyl-4-methoxy-pentane prepn. process - by reacting perfluoro-4-methyl-2-pentene with **perfluoro-methyl hypofluorite** partic. useful as cooling and heat transfer fluid
- L2 ANSWER 16 OF 43 WPIDS COPYRIGHT 2003 THOMSON DERWENT on STN  
 TI Mono- or di-functional per fluoro polyether(s) with hypofluorite gps. - prepd. by reacting per fluoro polyether having at least one fluoro formate end gp. or peroxy gp. with fluorine, etc..
- L2 ANSWER 17 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN  
 TI Process for manufacture of hypofluorites and bishypofluorites
- L2 ANSWER 18 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN  
 TI Kinetics and mechanism of the thermal reaction between **perfluoro -2-butene** and trifluoromethyl **hypofluorite**
- L2 ANSWER 19 OF 43 USPATFULL on STN  
 TI Fluoroxy compound solutions
- L2 ANSWER 20 OF 43 PASCAL COPYRIGHT 2003 INIST-CNRS. ALL RIGHTS RESERVED. on STN  
 TIEN Facile, temperature-dependent formation of gaseous C.sub.1 and C.sub.2 perfluoroalkyl hypofluorites. Applications as electrophilic fluorinating agents
- L2 ANSWER 21 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 5  
 TI Stable long-chain fluoroxy compounds and their chemistry
- L2 ANSWER 22 OF 43 USPATFULL on STN  
 TI Chemical process for fluorinating a tertiary carbon atom in the steroid nucleus
- L2 ANSWER 23 OF 43 USPATFULL on STN  
 TI Preparation of N,N-difluoroamines
- L2 ANSWER 24 OF 43 USPATFULL on STN  
 TI Uracil derivatives and production thereof
- L2 ANSWER 25 OF 43 USPATFULL on STN  
 TI Perfluoroethers
- L2 ANSWER 26 OF 43 NTIS COPYRIGHT 2003 NTIS on STN  
 TI Method for the Preparation of Bis(Perfluoro-t Butyl) Peroxide. Patent.



- L2 ANSWER 27 OF 43 IFIPAT COPYRIGHT 2003 IFI on STN DUPLICATE 6  
TI METHOD FOR THE PREPARATION OF BIS(PERFLUORO-T BUTYL) PEROXIDE; PHOTOLYSIS OF **PERFLUORO-T-BUTYL HYPOFLUORITE**; TETRAFLUOROHYDRAZINE
- L2 ANSWER 28 OF 43 USPATFULL on STN  
TI Method for the preparation of perfluoroethers
- L2 ANSWER 29 OF 43 IFIPAT COPYRIGHT 2003 IFI on STN DUPLICATE 7  
TI CHEMICAL PROCESS FOR PREPARING DELTA9(11)-DEHYDROSTEROIDS; ELECTROPHILIC FLUORINATION, FREE RADICAL INHIBITOR, DEHYDROFLUORINATION
- L2 ANSWER 30 OF 43 USPATFULL on STN  
TI Chemical process
- L2 ANSWER 31 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 8  
TI Addition reaction of tetrafluorohydrazine to **perfluoro-t-butyl hypofluorite**
- L2 ANSWER 32 OF 43 USPATFULL on STN  
TI Process for the preparation of N-monofluoro-acid amides, N-monofluoro and N,N-difluoro-tertiary amines
- L2 ANSWER 33 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN  
TI Photochemical reactions of fluoroxyperfluoroalkanes with perfluorocycloolefins
- L2 ANSWER 34 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN  
TI Electrophilic additions involving fluoronium ions. II. Addition of fluoroxy groups to perfluoroaromatic compounds
- L2 ANSWER 35 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN  
TI Electrophilic additions involving fluoronium ions. I. Fluoroxy additions to perfluoro-olefinic bonds
- L2 ANSWER 36 OF 43 SCISEARCH COPYRIGHT 2003 THOMSON ISI on STN  
TI THERMAL VERSUS PHOTOINDUCED REACTIONS OF **PERFLUORO-TERT-BUTYL HYPOFLUORITE** AND TETRA-FLUOROHYDRAZINE
- L2 ANSWER 37 OF 43 NTIS COPYRIGHT 2003 NTIS on STN  
TI Electrophilic Additions Involving Fluoronium Ions. II. The Addition of Fluoroxy Groups to Perfluoroaromatic Compounds.  
Reprint: Electrophilic Additions Involving Fluoronium Ions. II. The Addition of Fluoroxy Groups to Perfluoroaromatic Compounds.
- L2 ANSWER 38 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 9  
TI Polymerizing **perfluoro-2-butyne** using trifluoromethyl **hypofluorite** as initiator
- L2 ANSWER 39 OF 43 USPATFULL on STN  
TI FLUORINATION OF UNSATURATED STEROIDS
- L2 ANSWER 40 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN  
TI Electrophilic fluorination of unsaturated organic compounds
- L2 ANSWER 41 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN  
TI Perfluoroalkylperoxy perfluoroalkylfluoroxy compounds
- L2 ANSWER 42 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN  
TI Perfluoroalkyl hypochlorites and SbF5OCl
- L2 ANSWER 43 OF 43 NTIS COPYRIGHT 2003 NTIS on STN  
TI Method for the Preparation of Bis (Perfluoro-T-Butyl) Peroxide. Patent

09/840,527

Application.

=> d 6,8,17 bib ab

L2 ANSWER 6 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2002:669780 CAPLUS  
DN 137:169235  
TI Preparation of perfluoroalkyl hypofluorites and their adducts with  
(halo)ethylenes  
IN Navarrini, Walter; Galiberti, Marco  
PA Ausimont S.p.A., Italy  
SO Ital. Appl., 25 pp.  
CODEN: ITXXCZ  
DT Patent  
LA Italian  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	IT 2000MI1845	A1	20020208	IT 2000-MI1845	20000808
PRAI	IT 2000-MI1845		20000808		

OS CASREACT 137:169235; MARPAT 137:169235  
AB Hypofluorites R1R2R3CCF2OF (R1, R2, R3 = F, perfluoroalkyl or may combine to form a 4-6 membered ring) were prepd. and reacted with olefins X1X2C: CX3X4 (X1-X4 = H, F, Cl) to form adducts R1R2R3CCF2OCX1X2CX3X4F. Thus, fluorination of (CF3)2CFCOF (2 mol) with 4 mol F2 over a CsF/NaF catalyst (3 h at -78.degree.) yielded (CF3)2CFCF2OF which reacted with 6 mol CFCl:CFCl to afford 60% (CF3)2CFCF2OCFClCF2OCl.

L2 ANSWER 8 OF 43 CASREACT COPYRIGHT 2003 ACS on STN  
AN 137:169235 CASREACT  
TI Preparation of perfluoroalkyl hypofluorites and their adducts with  
(halo)ethylenes  
IN Navarrini, Walter; Galiberti, Marco  
PA Ausimont S.p.A., Italy  
SO Ital. Appl., 25 pp.  
CODEN: ITXXCZ  
DT Patent  
LA Italian  
FAN.CNT 1

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PRAI	IT 2000-MI1845		20000808		

OS MARPAT 137:169235  
AB Hypofluorites R1R2R3CCF2OF (R1, R2, R3 = F, perfluoroalkyl or may combine to form a 4-6 membered ring) were prepd. and reacted with olefins X1X2C: CX3X4 (X1-X4 = H, F, Cl) to form adducts R1R2R3CCF2OCX1X2CX3X4F. Thus, fluorination of (CF3)2CFCOF (2 mol) with 4 mol F2 over a CsF/NaF catalyst (3 h at -78.degree.) yielded (CF3)2CFCF2OF which reacted with 6 mol CFCl:CFCl to afford 60% (CF3)2CFCF2OCFClCF2OCl.

L2 ANSWER 17 OF 43 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1988:475711 CAPLUS  
DN 109:75711  
TI Process for manufacture of hypofluorites and bishypofluorites  
IN Marraccini, Antonio; Guglielmo, Giorgio; Malacrida, Alessandro; Roberti, Lamberto  
PA Ausimont S.p.A., Italy  
SO Eur. Pat. Appl., 6 pp.  
CODEN: EPXXDW  
DT Patent

09/840,527

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 259817	A2	19880316	EP 1987-113058	19870907
	EP 259817	A3	19880504		
	EP 259817	B1	19910522		
	R: DE, FR, GB, NL, SE				
	US 4801409	A	19890131	US 1987-93700	19870908
	JP 63126845	A2	19880530	JP 1987-224216	19870909
	JP 2532885	B2	19960911		
	CA 1297122	A1	19920310	CA 1987-546432	19870909
PRAI	IT 1986-21658		19860910		

OS MARPAT 109:75711

AB A process for prepg. FSO2RCF2OF (R = C1-4 perfluoroalkylene, C1-4 perfluorochloroalkylene) or FOCF2R1CF2OF(R1 = C1-10 perfluoroalkylene, C1-10 perfluorooxyalkylene), comprises reacting FO2SRCOF or FCOR1COF with F in the gas phase at 0-60.degree. in the presence of a KF, RbF, CsF, or BaF fixed-bed catalyst, the process being conducted continuously. Thus, Cu chips were mixed with CsF, dried at 350.degree. in N over 4 h, ground, screened, and the gaseous mixt. consisting of 1:1:1 (molar ratio ) N/F/FO2SCF2COF was passed over the catalyst at 12 NL/h and 20.degree. and 1.1 atm, producing FO2SCF2CF2OF in 100% yield.

=> log y

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ENTRY	SESSION
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FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

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ENTRY	SESSION
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NEWS	11	Apr 14	MEDLINE Reload
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NEWS	14	Apr 21	New current-awareness alert (SDI) frequency in WPIDS/WPINDEX/WPIX
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NEWS	17	May 15	MEDLINE file segment of TOXCENTER reloaded
NEWS	18	May 15	Supporter information for ENCOMPAT and ENCOMPLIT updated
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NEWS	20	May 19	RAPRA enhanced with new search field, simultaneous left and right truncation
NEWS	21	Jun 06	Simultaneous left and right truncation added to CBNB
NEWS	22	Jun 06	PASCAL enhanced with additional data
NEWS	23	Jun 20	2003 edition of the FSTA Thesaurus is now available
NEWS	24	Jun 25	HSDB has been reloaded
NEWS	25	Jul 16	Data from 1960-1976 added to RDISCLOSURE
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NEWS	27	Jul 21	Polymer class term count added to REGISTRY
NEWS	28	Jul 22	INPADQC: Basic index (/BI) enhanced; Simultaneous Left and Right Truncation available
NEWS	29	AUG 05	New pricing for EUROPATFULL and PCTFULL effective August 1, 2003
NEWS	30	AUG 13	Field Availability (/FA) field enhanced in BEILSTEIN
NEWS	31	AUG 15	PATDPAFULL: one FREE connect hour, per account, in September 2003
NEWS	32	AUG 15	PCTGEN: one FREE connect hour, per account, in September 2003
NEWS	33	AUG 15	RDISCLOSURE: one FREE connect hour, per account, in September 2003
NEWS	34	AUG 15	TEMA: one FREE connect hour, per account, in September 2003
NEWS	35	AUG 18	Data available for download as a PDF in RDISCLOSURE
NEWS	36	AUG 18	Simultaneous left and right truncation added to PASCAL
NEWS	37	AUG 18	FROSTI and KOSMET enhanced with Simultaneous Left and Right

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# Truncation

NEWS 38 AUG 18 Simultaneous left and right truncation added to ANABSTR

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=> s tetrafluoroethylene and hypofluorite

36 FILES SEARCHED...

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L1 69 TETRAFLUOROETHYLENE AND HYPOFLUORITE

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L2 49 DUP REM L1 (20 DUPLICATES REMOVED)

=> d 1-49 ti

L2 ANSWER 1 OF 49 IFIPAT COPYRIGHT 2003 IFI on STN DUPLICATE 1  
TI THERMALLY STABLE PERFLUOROPOLYETHERS AND PROCESSES THEREFOR AND THEREWITH

L2 ANSWER 2 OF 49 EUROPATFULL COPYRIGHT 2003 WILA on STN  
TIEN Alkyl esters of 2-(2-fluorosulphonyl)-perfluoroethylenoxy-3-halogen-  
propionic acid.

L2 ANSWER 3 OF 49 EUROPATFULL COPYRIGHT 2003 WILA on STN  
TIEN Perfluoroelastomers.

L2 ANSWER 4 OF 49 EUROPATFULL COPYRIGHT 2003 WILA on STN  
TIEN Fluoroelastomers.

L2 ANSWER 5 OF 49 USPATFULL on STN  
TI Alkyl esters of the 2-(2-fluorosulphonyl)-perfluoroethylenoxy-3-halogen-  
propionic acid

L2 ANSWER 6 OF 49 USPATFULL on STN  
TI Perfluoroelastomers

L2 ANSWER 7 OF 49 USPATFULL on STN  
TI Fluoroelastomers

L2 ANSWER 8 OF 49 CAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 2  
TI Methyl **hypofluorite** (MeOF) reactions with various fluoroolefins

L2 ANSWER 9 OF 49 USPATFULL on STN DUPLICATE 3  
TI Perfluorodioxoles

L2 ANSWER 10 OF 49 EUROPATFULL COPYRIGHT 2003 WILA on STN  
TIEN New perfluorodioxoles.  
TIEN New perfluorodioxoles.

L2 ANSWER 11 OF 49 IFIPAT COPYRIGHT 2003 IFI on STN  
TI NEW PERFLUORODIOXOLES

L2 ANSWER 12 OF 49 INPADOC COPYRIGHT 2003 EPO on STN  
TI METHOD OF OXIDATION OF **TETRAFLUOROETHYLENE** TO PEROXIDE SIMPLE  
PERFLUOROPOLYETHER PRODUCING

- L2 ANSWER 13 OF 49 PCTFULL COPYRIGHT 2003 Univentio on STN  
 TIEN USE OF PARTIALLY FLUORINATED POLYMERS IN APPLICATIONS REQUIRING  
 TRANSPARENCY IN THE ULTRAVIOLET AND VACUUM ULTRAVIOLET  
 TIFR UTILISATION DE POLYMERES PARTIELLEMENT FLUORES DANS DES APPLICATIONS  
 NECESSITANT LA TRANSPARENCE DANS L'ULTRAVIOLET ET L'ULTRAVIOLET EXTREME
- L2 ANSWER 14 OF 49 PCTFULL COPYRIGHT 2003 Univentio on STN  
 TIEN PERFLUOROPOLYETHERS AND PROCESSES THEREFOR AND THEREWITH  
 TIFR PERFLUOROPOLYETHERS ET LEURS PROCEDES DE PREPARATION ET D'UTILISATION
- L2 ANSWER 15 OF 49 USPATFULL on STN  
 TI Copolymers of perfluorodioxoles
- L2 ANSWER 16 OF 49 EUROPATFULL COPYRIGHT 2003 WILA on STN DUPLICATE 4  
 TIEN Fluorovinylethers and polymers obtainable therefrom.
- L2 ANSWER 17 OF 49 IFIPAT COPYRIGHT 2003 IFI on STN DUPLICATE 5  
 TI FLUOROVINYL ETHERS AND POLYMERS OBTAINABLE THEREFROM; SUCH AS  
 PERFLUOROVINYL PERFLUORO(ETHOXYMETHYL) ETHER; THE (-OCF<sub>2</sub>O-) UNIT BOUND TO  
 THE ETHYLENE UNSATURATION INCREASES THE VINYL ETHER REACTIVITY  
 DRASTICALLY REDUCING THE REARRANGEMENTS TO CARBONYL FLUORIDE WHICH CAUSE  
 INSTABILITY
- L2 ANSWER 18 OF 49 EUROPATFULL COPYRIGHT 2003 WILA on STN  
 TIEN Fluoroelastomers.
- L2 ANSWER 19 OF 49 EUROPATFULL COPYRIGHT 2003 WILA on STN  
 TIEN Process for the neutralization of perfluoropolyoxyalkylenes.  
 TIEN Process for the neutralization of perfluoropolyoxyalkylenes.
- L2 ANSWER 20 OF 49 USPATFULL on STN  
 TI Fluoroelastomers
- L2 ANSWER 21 OF 49 WSCA COPYRIGHT 2003 PAINT RESEARCH on STN  
 TI Surface properties of methacrylic copolymers containing  
 perfluoropolyether structure.
- L2 ANSWER 22 OF 49 CAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 6  
 TI Method for preparing perfluorinated epoxides by the epoxidation of  
 perfluorinated alkenes in the presence of oxygen and a halogen initiator
- L2 ANSWER 23 OF 49 CAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 7  
 TI Preparation of fluoroethers from fluoroolefins
- L2 ANSWER 24 OF 49 EUROPATFULL COPYRIGHT 2003 WILA on STN  
 TIEN Process for preparing perfluoropolyethers.  
 TIEN Process for preparing perfluoropolyethers.
- L2 ANSWER 25 OF 49 WPIDS COPYRIGHT 2003 THOMSON DERWENT on STN  
 TI New perfluorodioxole compounds, suitable for preparing copolymers with  
**tetrafluoroethylene** and other olefins.
- L2 ANSWER 26 OF 49 USPATFULL on STN  
 TI Fluorinated polymers and copolymers containing cyclic structures
- L2 ANSWER 27 OF 49 EUROPATFULL COPYRIGHT 2003 WILA on STN  
 TIEN Fluorinated polymers and copolymers containing cyclic structures.  
 TIEN Fluorinated polymers and copolymers containing cyclic structures.
- L2 ANSWER 28 OF 49 IFIPAT COPYRIGHT 2003 IFI on STN DUPLICATE 8  
 TI FLUORINATED POLYMERS AND COPOLYMERS CONTAINING CYCLIC STRUCTURES; HEAT  
 STABILITY

- L2 ANSWER 29 OF 49 IFIPAT COPYRIGHT 2003 IFI on STN DUPLICATE 9  
TI PROCESS FOR PREPARING PERFLUOROPOLYETHERS; OXIDATION AND PEROXIDATION OF  
**TETRAFLUOROETHYLENE**; ADDITION-CONDENSATION POLYMERIZATION
- L2 ANSWER 30 OF 49 USPATFULL on STN  
TI N-fluoropyridinium salt and process for preparing same
- L2 ANSWER 31 OF 49 ENCOMPAT2 COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC. on STN DUPLICATE 10  
TI Higher mol. wt. perfluoro-polyether cpds. - prepd. by liq. phase oxidation  
of tetrafluoro-ethylene with oxygen in a liq. phase using a chemical  
initiator and a specified reaction pressure
- L2 ANSWER 32 OF 49 EUROPATFULL COPYRIGHT 2003 WILA on STN  
TIEN Process for the preparation of peroxidic perfluoropolyethers.  
TIEN Process for the preparation of peroxidic perfluoropolyethers.
- L2 ANSWER 33 OF 49 EUROPATFULL COPYRIGHT 2003 WILA on STN  
TIEN Polymerization of fluoroolefins.  
TIEN Polymerization of fluoroolefins.
- L2 ANSWER 34 OF 49 USPATFULL on STN  
TI Process for the neutralization of perfluoropolyoxyalkylenes
- L2 ANSWER 35 OF 49 USPATFULL on STN  
TI Process for preparing peroxide perfluoropolyethers
- L2 ANSWER 36 OF 49 USPATFULL on STN  
TI Polymerization of fluoroolefins in presence of non-volatile polymeric  
seed
- L2 ANSWER 37 OF 49 USPATFULL on STN  
TI N-fluoropyridinium salt and process for preparing same
- L2 ANSWER 38 OF 49 EUROPATFULL COPYRIGHT 2003 WILA on STN  
TIEN Process for preparing perfluoro-(2-bromoethylvinylether).
- L2 ANSWER 39 OF 49 PCTFULL COPYRIGHT 2003 Univentio on STN  
TIEN PROCESS FOR THE PREPARATION OF PEROXIDIC PERFLUOROPOLYETHERS  
TIFR PROCEDE POUR PREPARER DES PERFLUOROPOLYETHERS PEROXYDIQUES
- L2 ANSWER 40 OF 49 USPATFULL on STN  
TI Process for preparing perfluoro-(2-bromoethyl-vinyl-ether)
- L2 ANSWER 41 OF 49 CAPLUS COPYRIGHT 2003 ACS on STN  
TI Perfluoropolyethers having mono and bishypofluorite end groups and process  
for preparing them
- L2 ANSWER 42 OF 49 USPATFULL on STN  
TI Polymerization of fluoroolefins
- L2 ANSWER 43 OF 49 IFIPAT COPYRIGHT 2003 IFI on STN DUPLICATE 11  
TI FLUOROOLEFIN POLYMERIZATION PROCESS USING FLUOROXY COMPOUND SOLUTION AS  
INITIATOR; ACYL **HYPOFLUORITE**
- L2 ANSWER 44 OF 49 CAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 12  
TI Fluoroolefin polymerization using an acyl **hypofluorite** catalyst
- L2 ANSWER 45 OF 49 IFIPAT COPYRIGHT 2003 IFI on STN DUPLICATE 13  
TI PENTAFLUOROTELLURIUM OXIDE FLUOROCARBONS; HIGH DENSITY FLUIDS
- L2 ANSWER 46 OF 49 CAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 14  
TI Stable long-chain fluoroxy compounds and their chemistry

L2 ANSWER 47 OF 49 USPATFULL on STN  
TI Utilization of oxygen difluoride for syntheses of fluoropolymers

L2 ANSWER 48 OF 49 USPATFULL on STN  
TI PROCESS FOR PREPARING PERFLUORO-2-BUTYNE POLYMER

L2 ANSWER 49 OF 49 CAPLUS COPYRIGHT 2003 ACS on STN  
TI 1,3-Bis(fluoroxo)perfluoropropane and other oxygen-containing compounds by direct fluorination

=> d 1,8,14,16,17,23,24,29,31,33,42 bib ab

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Howell; Jon L., Bear, DE, US  
Perez; Erik William, Pennsauken, NJ, US  
Thrasher; Joseph Stuart, Tuscaloosa, AL, US  
Waterfeld; Alfred, Tuscaloosa, AL, US  
IN Friesen Chadron Mark (CA); Howell Jon L; Perez Erik William; Thrasher  
Joseph Stuart; Waterfeld Alfred  
PAF Unassigned  
PA Unassigned Or Assigned To Individual (68000)  
AG E I DU PONT DE NEMOURS AND COMPANY LEGAL PATENT RECORDS CENTER, BARLEY  
MILL PLAZA 25/ 1128, 4417 LANCASTER PIKE, WILMINGTON, DE, 19805, US  
PI US 2003027732 A1 20030206  
AI US 2001-901975 20010710  
FI US 2003027732 20030206  
DT Utility; Patent Application - First Publication  
FS CHEMICAL  
APPLICATION  
CLMN 35  
AB A perfluoropolyether, a composition comprising the perfluoropolyether, a process for producing the perfluoropolyether, and a process for improving the thermostability of grease or lubricant are provided. The perfluoropolyether comprises perfluoroalkyl radical end groups in which the radical has at least 3 carbon atoms per radical and is substantially free of perfluoromethyl and perfluoroethyl end groups. The process for producing the perfluoropolyether can comprise (1) contacting a perfluoro acid halide, a C2- to C4-substituted ethyl epoxide, or a C3+ fluoroketone with a metal halide to produce an alkoxide; (2) contacting the alkoxide with either hexafluoropropylene oxide or tetrafluorooxetane to produce a second acid halide; (3) esterifying the second acid halide to an ester; (4) reducing the ester to its corresponding alcohol; (5) converting the alcohol with a base to a salt form; (6) contacting the salt form with a C3 or higher olefin to produce a fluoropolyether; and (7) fluorinating the fluoropolyether. The process for improving the thermostability of a grease or lubricant comprises combining the grease or lubricant with the composition.

L2 ANSWER 8 OF 49 CAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 2  
AN 2002:943764 CAPLUS  
DN 138:337677  
TI Methyl hypofluorite (MeOF) reactions with various fluoroolefins  
AU Suzuta, Tetsuya; Abe, Takashi; Sekiya, Akira  
CS Toagosei Co. Ltd., Tsukuba, Ibaraki, 300-2611, Japan  
SO Journal of Fluorine Chemistry (2003), 119(1), 3-8  
CODEN: JFLCAR; ISSN: 0022-1139  
PB Elsevier Science B.V.  
DT Journal

09/840,527

LA English

OS CASREACT 138:337677

AB The reaction of MeOF with fluoroolefins such as CF<sub>2</sub>:CF<sub>2</sub>, CF<sub>2</sub>:CFCF<sub>3</sub>, CF<sub>2</sub>:CFOCF<sub>3</sub>, CF<sub>2</sub>:CFOMe, CF<sub>2</sub>:CClF, CF<sub>2</sub>:CHF, CF<sub>2</sub>:CH<sub>2</sub>, CHF:CH<sub>2</sub>, and CF<sub>2</sub>:CFCF:CF<sub>2</sub> occurred in CD<sub>3</sub>CN or in the presence of NaF. Using neat MeOF in the presence of NaF was a novel method and gave good results. When >3 F atoms were bonded to the C-C double bond, the addn. products were obtained mostly in good yields.

RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 14 OF 49 PCTFULL COPYRIGHT 2003 Univentio on STN

AN 2002006375 PCTFULL ED 20020814

TIEN PERFLUOROPOLYETHERS AND PROCESSES THEREFOR AND THEREWITH

TIFR PERFLUOROPOLYETHERS ET LEURS PROCEDES DE PREPARATION ET D'UTILISATION

IN HOWELL, Jon, L.;

PEREZ, Erik, William;

WATERFELD, Alfred;

FRIESEN, Chadron, Mark;

THRASHER, Joseph, Stuart

PA E.I. DUPONT DE NEMOURS AND COMPANY;

HOWELL, Jon, L.;

PEREZ, Erik, William;

WATERFELD, Alfred;

FRIESEN, Chadron, Mark;

THRASHER, Joseph, Stuart

DT Patent

PI WO 2002006375 A2 20020124

DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ  
DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP  
KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ  
NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US  
UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ TZ UG ZW AM AZ BY  
KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU  
MC NL PT SE TR BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD  
TG

AI WO 2001-US22817 A 20010719

PRAI US 2000-60/219,400 20000719

ABEN A perfluoropolyether, a composition comprising the perfluoropolyether, a process for producing the perfluoropolyether, and a process for improving the thermostability of grease or lubricant are provided. The perfluoropolyether comprises (1) perfluoroalkyl radical end groups in which the radical has at least 3 carbon atoms per radical and is substantially free of perfluoromethyl and perfluoroethyl end groups or (2) at least one bromine or iodine atom at the primary position of the perfluoropolyether.

ABFR L'invention concerne un perfluoropolyether, une composition renfermant ledit perfluoropolyether, un procede de production dudit perfluoropolyether et un procede destine a ameliorer la thermostabilite des graisses ou lubrifiants. Le perfluoropolyether selon l'invention comprend (1) des groupes terminaux radicalaires perfluoroalkyle dont le radical, qui est sensiblement exempt de groupes terminaux perfluoromethyle et perfluoroethyle, se compose d'au moins 3 atomes de carbone par radical ou (2) au moins un atome de brome ou d'iode au niveau de sa position primaire.

L2 ANSWER 16 OF 49 EUROPATFULL COPYRIGHT 2003 WILA on STN DUPLICATE 4

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

AN 1148041 EUROPATFULL UP 20020218 EW 200143 FS OS STA R

TIEN Fluorovinylethers and polymers obtainable therefrom.

TIDE Fluorvinylether und daraus hergestellte Polymere.

09/840,527

TIFR Ethers fluorovinylques et des polymeres ainsi obtenus.  
IN Navarrini, Walter, Via Aldo Moro 46/48, Boffalora Ticino, Milano, IT  
PA Ausimont S.p.A., Piazzetta Maurilio Bossi 3, 20121 Milano, IT  
PAN 1060675  
AG Sama, Daniele, Dr. et al., Sama Patents, Via G.B. Morgagni, 2, 20129 Milano, IT  
AGN 76062  
OS BEPA2001086 EP 1148041 A2 0019  
SO Wila-EPZ-2001-H43-T1a  
DT Patent  
LA Anmeldung in Englisch; Veroeffentlichung in Englisch  
DS R AT; R BE; R CH; R CY; R DE; R DK; R ES; R FI; R FR; R GB; R GR; R IE; R IT; R LI; R LU; R MC; R NL; R PT; R SE; R TR; R AL; R LT; R LV; R MK; R RO; R SI  
PIT EPA2 EUROPÄISCHE PATENTANMELDUNG  
PI EP 1148041 A2 20011024  
OD 20011024  
AI EP 2001-108596 20010405  
PRAI IT 2000-MI00902 20000421  
ABEN Fluorovinylethers having the formula  $CFX=CXOCF_{2OR}$ , wherein R is a  $C_{2-6}$  linear, branched or  $C_{5-6}$  cyclic (per)fluoroalkyl group, or a  $C_{2-6}$  linear, branched (per)fluoro oxyalkyl group containing from one to three oxygen atoms; when R is fluoroalkyl or fluoroalkoxyalkyl group as above defined, it can contain from 1 to 2 atoms, equal or different, selected from the following: H, Cl, Br, I; X = F, H; and homopolymers or polymers obtainable polymerizing said fluorovinylethers with at least another polymerizable monomer.

L2 ANSWER 17 OF 49 IFIPAT COPYRIGHT 2003 IFI on STN DUPLICATE 5  
AN 10051594 IFIPAT;IFIUDB;IFICDB  
TI FLUOROVINYL ETHERS AND POLYMERS OBTAINABLE THEREFROM; SUCH AS PERFLUOROVINYL PERFLUORO(ETHOXYMETHYL) ETHER; THE (-OCF<sub>2O</sub>-) UNIT BOUND TO THE ETHYLENE UNSATURATION INCREASES THE VINYL ETHER REACTIVITY DRASTICALLY REDUCING THE REARRANGEMENTS TO CARBONYL FLUORIDE WHICH CAUSE INSTABILITY  
INF Navarrini; Walter, Milano, IT  
IN Navarrini Walter (IT)  
PAF Ausimont S.p.A.  
PA Ausimont SpA IT (15271)  
AG KENYON & KENYON, ONE BROADWAY, NEW YORK, NY, 10004, US  
PI US 2001051753 A1 20011213  
AI US 2001-840527 20010423  
PRAI IT 2000-MI902 20000421  
FI US 2001051753 20011213  
DT Utility; Patent Application - First Publication  
FS CHEMICAL APPLICATION  
CLMN 26  
AB Fluorovinyl ethers having the formula  $CFX$  horizontal-line  $CXOCF_{2OR}$ , wherein R is a  $C_2$ - $C_6$  linear, branched or  $C_5$ - $C_6$  cyclic (per)fluoroalkyl group, or a  $C_2$ - $C_6$ , linear, branched (per) fluoro oxyalkyl group containing from one to three oxygen atoms; when R is fluoroalkyl or fluoroalkoxyalkyl group as above defined, it can contain from 1 to 2 atoms, equal or different, selected from the following: H, Cl, Br, I; X horizontal-line F, H; and homopolymers or polymers obtainable polymerizing said Fluorovinyl ethers with at least another polymerizable monomer.

L2 ANSWER 23 OF 49 CAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 7  
AN 2000:151462 CAPLUS  
DN 132:194111

09/840,527

TI Preparation of fluoroethers from fluoroolefins  
IN Suzuta, Tetsuya; Wakabayashi, Kunitoshi; Kurokawa, Yuji; Abe, Takashi;  
Sekiya, Akira  
PA Agency of Industrial Sciences and Technology, Japan; Zaidan Hojin Chikyu  
Kankyo Sangyo Gijutsu Kenkyu Kiko  
SO Jpn. Kokai Tokkyo Koho, 4 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000072702	A2	20000307	JP 1998-243921	19980828
	JP 2955599	B2	19991004		
PRAI	JP 1998-243921		19980828		

OS CASREACT 132:194111

AB Fluoroethers, useful as substitutes for chlorofluorocarbons (no data) and intermediates for drugs and pesticides, are prepd. by addn. of olefins having .gtoreq.1 F attached to double bonded C, with MeOF or BuOF. F2C:CF2 was treated with MeOF in CD3CN at room temp. for 15 h to give 96% CF3CF2OMe.

L2 ANSWER 24 OF 49 EUROPATFULL COPYRIGHT 2003 WILA on STN

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

AN 654493 EUROPATFULL ED 19991212 EW 199521 FS OS STA B  
TIEN Process for preparing perfluoropolyethers.  
TIDE Verfahren zur Herstellung von Perfluoropolyether.  
TIFR Procède pour la preparation de perfluoropolyethers.  
IN Marchionni, Giuseppe, Via Vallisneri 8, Milano, IT;  
Guarda, Pier Antonio, Strada Favero 45, Nole, (Torino), IT;  
Paganin, Maurizio, Via Sirio 3/N, Cassina de' Pecchi, (Milano), IT  
PA AUSIMONT S.p.A., 31 Foro Buonaparte, I-20121 Milano, IT  
PAN 1060674  
AG Sama, Daniele et al, Sama Patents Via Masera, 10, I-20129 Milano, IT  
AGN 76061  
OS ESP1995035 EP 0654493 A1 950524  
SO Wila-EPZ-1995-H21-T1a  
DT Patent  
LA Anmeldung in Englisch; Veroeffentlichung in Englisch  
DS R AT; R BE; R CH; R DE; R DK; R ES; R FR; R GB; R GR; R IE; R IT; R LI;  
R LU; R NL; R PT; R SE  
PIT EPA1 EUROPAEISCHE PATENTANMELDUNG  
PI EP 654493 A1 19950524  
OD 19950524  
AI EP 1994-117844 19941111  
PRAI IT 1993-MI932443 19931117

GRANTED PATENT - ERTEILTES PATENT - BREVET DELIVRE

AN 654493 EUROPATFULL UP 20000507 EW 200017 FS PS  
TIEN Process for preparing perfluoropolyethers.  
TIDE Verfahren zur Herstellung von Perfluoropolyethers.  
TIFR Procède pour la preparation de perfluoropolyethers.  
IN Marchionni, Giuseppe, Via Vallisneri 8, Milano, IT;  
Guarda, Pier Antonio, Strada Favero 45, Nole, (Torino), IT;  
Paganin, Maurizio, Via Sirio 3/N, Cassina de' Pecchi, (Milano), IT  
PA AUSIMONT S.p.A., 31 Foro Buonaparte, I-20121 Milano, IT  
PAN 1060674  
AG Sama, Daniele, Dr. et al., Sama Patents Via Morgagni, 2, 20129 Milano, IT  
AGN 76061

OS BEPB2000022 EP 0654493 B1 0011  
SO Wila-EPS-2000-H17-T1  
DT Patent  
LA Anmeldung in Englisch; Veroeffentlichung in Englisch  
DS R AT; R BE; R CH; R DE; R DK; R ES; R FR; R GB; R GR; R IE; R IT; R LI;  
R LU; R NL; R PT; R SE; R SI  
PIT EPB1 EUROPAEISCHE PATENTSCHRIFT  
PI EP 654493 B1 20000426  
OD 19950524  
AI EP 1994-117844 19941111  
PRAI IT 1993-MI932443 19931117  
REP EP 193122 A EP 340740 A  
EP 393700 A EP 393705 A  
EP 510685 A  
REN CHEMICAL ABSTRACTS, vol. 116, no. 20, 18 May 1992, Columbus, Ohio, US;  
abstract no. 194935r, BARANOVA N.M. ET AL 'Effect of the change in  
copolymer composition upon variation of the initiation rate' page 3; &  
DOKL. AKAD. NAUK. SSSR, vol.322, no.3, 1992 pages 544 - 548 BARANOVA N  
N. M. ET AL  
ABEN Process for preparing peroxidic perfluoropolyethers by oxidation of  
**tetrafluoroethylene** with oxygen, in liquid phase comprising a  
solvent and in the presence of a chemical initiator, at a pressure  
between 2 and 15 absolute atm and operating with a molar ratio of the  
**tetrafluoroethylene** to the chemical initiator higher than 35.  
The process allows to increase the molecular weight of the  
perfluoropolyethers at the same content of peroxidic oxygen.

L2 ANSWER 29 OF 49 IFIPAT COPYRIGHT 2003 IFI on STN DUPLICATE 9  
AN 2686338 IFIPAT;IFIUDB;IFICDB  
TI PROCESS FOR PREPARING PERFLUOROPOLYETHERS; OXIDATION AND PEROXIDATION OF  
**TETRAFLUOROETHYLENE**; ADDITION-CONDENSATION POLYMERIZATION  
INF Guarda, Pier A, Nole, IT  
Marchionni, Giuseppe, Milan, IT  
Paganin, Maurizio, Cassina de'Pecchi, IT  
IN Guarda Pier A (IT); Marchionni Giuseppe (IT); Paganin Maurizio (IT)  
PAF Ausimont SpA, Milan, IT  
PA Ausimont SpA IT (15271)  
EXNAM Lone, Werren B  
AG Finnegan, Henderson, Farabow, Garrett & Dunner  
PI US 5488181 19960130 (CITED IN 003 LATER PATENTS)  
AI US 1994-341150 19941116  
XPD 16 Nov 2014  
PRAI IT 1993-MI2443 19931117  
FI US 5488181 19960130  
DT UTILITY  
FS CHEMICAL  
GRANTED  
MRN 007211 MFN: 0600  
CLMN 12  
AB Process for preparing peroxidic perfluoropolyethers by oxidation of  
**tetrafluoroethylene** with oxygen, in liquid phase comprising a  
solvent and in the presence of a chemical initiator, at a pressure  
between 2 and 15 absolute atm and operating with a molar ratio of the  
**tetrafluoroethylene** to the chemical initiator higher than 35. The  
process allows to increase the molecular weight of the  
perfluoropolyethers at the same content of peroxidic oxygen.

L2 ANSWER 31 OF 49 ENCOMPPAT2 COPYRIGHT 2003 ELSEVIER ENGINEERING  
INFORMATION INC. on STN DUPLICATE 10  
AN 95:5810 ENCOMPPAT;ENCOMPPAT2  
DN 9522931  
TI Higher mol. wt. perfluoro-polyether cpds. - prepd. by liq. phase oxidation



of tetrafluoro-ethylene with oxygen in a liq. phase using a chemical initiator and a specified reaction pressure

IN GUARDA P A; MARCHIONNI G; PAGANIN M  
PA AUSIMONT SPA  
PI EP 654493 950524  
DS AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LI; LU; NL; PT; SE  
AI EP 1994-117844 941111  
PRAI IT 1993-MI2443 931117  
OS DERWENT 95187208  
LA English

L2 ANSWER 33 OF 49 EUROPATFULL COPYRIGHT 2003 WILA on STN

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

AN 415337 EUROPATFULL ED 20000820 EW 199110 FS OS STA B  
TIEN Polymerization of fluoroolefins.  
TIDE Polymerisation von Fluorolefinen.  
TIFR Polymerisation de fluoro-olefines.  
IN Slocum, Edgar Winfred, 302 Hampton Road, Wilmington, Delaware 19803, US;  
Sobrero, Aquiles Carlos, 22 Northwood Villa, Parkersburg, West Virginia  
26101, US;  
Wheland, Robert Clayton, 510 Twaddell Mill Road, Wilmington, Delaware  
19807, US  
PA E.I. DU PONT DE NEMOURS AND COMPANY, 1007 Market Street, Wilmington  
Delaware 19898, US  
PAN 200580  
AG Abitz, Walter, Dr.-Ing. et al, Abitz, Morf, Gritschneider, Freiherr von  
Wittgenstein Postfach 86 01 09, W-8000 Muenchen 86, DE  
AGN 1202  
OS ESP1991016 EP 0415337 A2 910306  
SO Wila-EPZ-1991-H10-T1  
DT Patent  
LA Anmeldung in Englisch; Veroeffentlichung in Englisch  
DS R DE; R GB; R IT  
PIT EPA2 EUROPAEISCHE PATENTANMELDUNG  
PI EP 415337 A2 19910306  
OD 19910306  
AI EP 1990-116459 19900828  
PRAI US 1989-399656 19890828

GRANTED PATENT - ERTEILTES PATENT - BREVET DELIVRE

AN 415337 EUROPATFULL UP 20010830 EW 199452 FS PS STA B  
TIEN Polymerization of fluoroolefins.  
TIDE Polymerisation von Fluorolefinen.  
TIFR Polymerisation de fluoro-olefines.  
IN Slocum, Edgar Winfred, 302 Hampton Road, Wilmington, Delaware 19803, US;  
Sobrero, Aquiles Carlos, 22 Northwood Villa, Parkersburg, West Virginia  
26101, US;  
Wheland, Robert Clayton, 510 Twaddell Mill Road, Wilmington, Delaware  
19807, US  
PA E.I. DU PONT DE NEMOURS AND COMPANY, 1007 Market Street, Wilmington  
Delaware 19898, US  
PAN 200580  
AG Abitz, Walter, Dr.-Ing. et al, Patentanwalt Abitz & Partner Postfach  
86 01 09, D-81628 Muenchen, DE  
AGN 1202  
OS EPB1994089 EP 0415337 B1 941228  
SO Wila-EPS-1994-H52-T1  
DT Patent  
LA Anmeldung in Englisch; Veroeffentlichung in Englisch  
DS R GB

09/840,527

PIT EPB1 EUROPÄISCHE PATENTSCHRIFT  
PI EP 415337 B1 19941228  
OD 19910306  
AI EP 1990-116459 19900828  
PRAI US 1989-399656 19890828  
REP US 3170858 A US 3592802 A  
US 4525547 A US 4535136 A  
ABEN A free-radical initiated process for preparing fluorinated polymers wherein at least one gaseous fluoroolefin is polymerized in a stirred polymerizer, the improvement comprising preparing a non-volatile polymeric seed in a reaction zone separate from the polymerizer by decomposing initiator in the presence of fluoromonomer to form oligomeric free radicals and condensing said radicals onto previously prepared polymer; and conveying said non-volatile seed to the polymerizer. <image>

L2 ANSWER 42 OF 49 USPATFULL on STN  
AN 89:72098 USPATFULL  
TI Polymerization of fluoroolefins  
IN Slocum, Edgar W., Wilmington, DE, United States  
Sobrero, Aquiles C., Parkersburg, WV, United States  
Wheland, Robert C., Wilmington, DE, United States  
PA E. I. Du Pont de Nemours and Company, Wilmington, DE, United States  
(U.S. corporation)  
PI US 4861845 19890829  
AI US 1988-166484 19880310 (7)  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Schofer, Joseph L.; Assistant Examiner: Teskin, F. M.  
CLMN Number of Claims: 8  
ECL Exemplary Claim: 1  
DRWN 1 Drawing Figure(s); 1 Drawing Page(s)  
LN.CNT 259  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
AB The polymerization of fluoromonomers can be accomplished without fouling by using gaseous monomers in the presence of at least one nonvolatile initiator and by recycling the initiator-free polymerizer gases through an external cooler.

=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	121.60	121.81
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-1.30	-1.30

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FILE CONTAINS CURRENT INFORMATION.  
LAST RELOADED: Aug 22, 2003 (20030822/UP).

=> file reg

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.36	122.17

09/840,527

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-1.30

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USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
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DICTIONARY FILE UPDATES: 25 AUG 2003 HIGHEST RN 573649-48-6

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 1942 OR 1992 OR 2006 OR 2016 OR 2021 OR 2026 OR 1938 OR 1958 OR 1985 OR 1838

L3 SCREEN CREATED

=>

Uploading C:\Program Files\Stnexp\Queries\840527a.str

L4 STRUCTURE UPLOADED

=> que L4 NOT L3

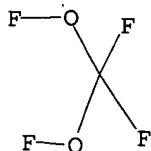
L5 QUE L4 NOT L3

=> d

L5 HAS NO ANSWERS

L3 SCR 1942 OR 1992 OR 2006 OR 2016 OR 2021 OR 2026 OR 1938 O  
R 1958 OR 1985 OR 1838

L4 STR



Structure attributes must be viewed using STN Express query preparation.

L5 QUE L4 NOT L3

09/840,527

=> s 15

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SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS 0 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 0 TO 0  
PROJECTED ANSWERS: 0 TO 0

L6 0 SEA SSS SAM L4 NOT L3

=> s 15 ful

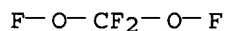
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FULL SCREEN SEARCH COMPLETED - 3 TO ITERATE

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SEARCH TIME: 00.00.01

L7 2 SEA SSS FUL L4 NOT L3

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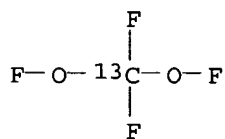
L7 2 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN  
IN Hypofluorous acid, difluoromethylene ester (9CI)  
MF C F4 O2  
CI COM



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L7 2 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN  
IN Hypofluorous acid, difluoromethylene-13C ester (9CI)  
MF C F4 O2



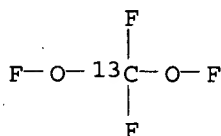
ALL ANSWERS HAVE BEEN SCANNED

=> d 1-2

L7 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2003 ACS on STN  
RN 302587-02-6 REGISTRY

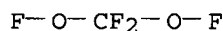
09/840,527

CN Hypofluorous acid, difluoromethylene-13C ester (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C F4 O2  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER



1 REFERENCES IN FILE CA (1937 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1937 TO DATE)

L7 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2003 ACS on STN  
RN 16282-67-0 REGISTRY  
CN Hypofluorous acid, difluoromethylene ester (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Methanediol, difluoro-, dihypofluorite (8CI)  
OTHER NAMES:  
CN Bis(fluorooxy)difluoromethane  
CN Bis(fluorooxy)perfluoromethane  
CN Difluoromethylene bis(hypofluorite)  
CN Difluoromethylene hypofluorite  
FS 3D CONCORD  
MF C F4 O2  
CI COM  
LC STN Files: BEILSTEIN\*, BIOSIS, CA, CAPLUS, CASREACT, IFICDB, IFIPAT, IFIUDB, SPECINFO, TOXCENTER, USPAT2, USPATFULL  
(\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

69 REFERENCES IN FILE CA (1937 TO DATE)  
69 REFERENCES IN FILE CAPLUS (1937 TO DATE)

=> file chemistry patent

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SINCE FILE	TOTAL
ENTRY	SESSION
152.31	274.48

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-1.30

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=> s 302587-02-6 or 16282-67-0

47 FILES SEARCHED...

L8 83 302587-02-6 OR 16282-67-0

=> s l8 and (tetrafluoroethylene or dichlorodifluoroethylene)

44 FILES SEARCHED...

L9 7 L8 AND (TETRAFLUOROETHYLENE OR DICHLORODIFLUOROETHYLENE)

=> dup rem l9

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INVESTEXT, KOSMET, RDISCLOSURE, STANDARDS, USAN, DGENE, DPCI, PCTGEN,  
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L10 6 DUP REM L9 (1. DUPLICATE REMOVED)

=> d 1-6 bib ab

L10 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2003:102710 CAPLUS

DN 138:122394

TI Fluorination process and catalysts for the preparation of perfluoroalkyl  
hypofluorites from the corresponding perfluoroacyl fluorides

IN Navarrini, Walter; Calini, Pierangelo

PA Ausimont S.p.A., Italy

SO Ital. Appl., 21 pp.

CODEN: ITXXCZ

DT Patent

LA Italian

FAN.CNT 1

PATENT NO.

KIND DATE

APPLICATION NO. DATE

-----  
PI IT 2000MI1844 A1 20020208 IT 2000-MI1844 20000808  
PRAI IT 2000-MI1844 20000808  
OS CASREACT 138:122394

AB Perfluoroalkyl hypofluorites (e.g., pentafluoroethyl hypofluorite) are prepd. in high yield and selectivity by the reaction of the corresponding perfluoroacyl fluorides (e.g., trifluoroacetyl fluoride) with fluorine in the presence of a catalyst system comprising CsF and/or KF on a fluorinated porous material, or CSF on a porous material contg. KF.

L10 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2001:780450 CAPLUS

DN 135:332426

TI Fluoroelastomers having low glass temperature

IN Navarrini, Walter

PA Ausimont S.P.A., Italy

SO Eur. Pat. Appl., 22 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1148072	A2	20011024	EP 2001-108598	20010405
	EP 1148072	A3	20020807		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2001354719	A2	20011225	JP 2001-120974	20010419
	US 2001047067	A1	20011129	US 2001-840582	20010423
PRAI	IT 2000-MI901	A	20000421		

AB Fluoroelastomers with lower glass temp. comprise, in the polymer chain, units deriving from fluorovinyl ethers having the formula: CFX:CXOCF2OR wherein R is a C2-C6 linear, branched or C5-C6 cyclic (per) fluoroalkyl group, or a C2-C6 linear, branched (per)fluoroalkoxy group contg. from one to three oxygen atoms; when R is fluoroalkyl or fluoroalkoxy group as above defined, it can contain from 1 to 2 atoms, equal or different, selected from the following: H, Cl, Br, I; X = F, H.

L10 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2001:780437 CAPLUS

DN 135:332425

TI Fluoro vinyl ethers and high-molecular-weight polymers made from them

IN Navarrini, Walter

PA Ausimont S.p.A., Italy

SO Eur. Pat. Appl., 19 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1148041	A2	20011024	EP 2001-108596	20010405
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2001354720	A2	20011225	JP 2001-120969	20010419
	US 2001051753	A1	20011213	US 2001-840527	20010423
PRAI	IT 2000-MI902	A	20000421		

OS MARPAT 135:332425

AB The fluoro vinyl ethers are of CFX=CXOCF2OR type compds., wherein R is a C2-6 linear, branched or C5-6 cyclic (per)fluoroalkyl group, or a C2-6 linear, branched (per)fluoro oxyalkyl group contg. from one to three oxygen atoms; when R is fluoroalkyl or fluoroalkoxyalkyl group as above defined, it can contain from 1 to 2 atoms, equal or different, selected

from the following: H, Cl, Br, I; X = F, H; and homopolymers or polymers are prepd. from the ethers with at least another polymerizable monomer. Process for synthesis of the ether is also presented.

L10 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 1  
 AN 1995:414070 CAPLUS  
 DN 122:290742  
 TI A new approach to the synthesis of 2,2-difluoro-1,3-dioxolanes  
 AU Navarrini, W.; Bragante, L.; Fontana, S.; Tortelli, V.; Zedda, A.  
 CS Ausimont, Research and Development Center, Viale Lombardia, 20, 20021 Bollate, Milan, Italy  
 SO Journal of Fluorine Chemistry (1995), 71(1), 111-17  
 CODEN: JFLCAR; ISSN: 0022-1139  
 PB Elsevier  
 DT Journal  
 LA English  
 OS CASREACT 122:290742  
 AB A direct and versatile way to prep. halogenated 2,2-difluoro-1,3-dioxolanes through the addn. of bis(fluoroxy)difluoromethane to halogenated alkenes, i.e., CF<sub>2</sub>:CFCF<sub>3</sub>, CF<sub>2</sub>CFOCF<sub>2</sub>CF<sub>3</sub>, CF<sub>2</sub>:CHCF<sub>3</sub>, CF<sub>3</sub>CF:CFCF<sub>3</sub>, CFCl:CFCF<sub>3</sub>, CFBr:CFBr, CCl<sub>2</sub>:CCl<sub>2</sub>, CHCl:CCl<sub>2</sub>, CHCl:CHCl, CH<sub>2</sub>:CHCl, CF<sub>2</sub>:CFCF<sub>3</sub>, (CF<sub>3</sub>)<sub>2</sub>CFCF:CFCF<sub>3</sub>, CF<sub>2</sub>:CFBr, CF<sub>2</sub>:CF<sub>2</sub>, was discovered. Cyclic alkenes, such as perfluorocyclobutene, failed to give a reaction with bis(fluoroxy)difluoromethane. For example, 2,2,4,4,5-pentafluoro-5-(trifluoromethyl)-1,3-dioxolane was prepd. from bis(fluoroxy)difluoromethane and perfluoropropene.

L10 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1992:106275 CAPLUS  
 DN 116:106275  
 TI Preparation of halogenated 1,3-dioxalanes from  
 bis(fluoroxy)difluoromethane and haloolefins  
 IN Navarrini, Walter; Fontana, Simonetta; Montanari, Vittorio  
 PA Ausimont S.p.A., Italy  
 SO Eur. Pat. Appl., 12 pp.  
 CODEN: EPXXDW

DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 460948	A2	19911211	EP 1991-305109	19910606
	EP 460948	A3	19920325		
	EP 460948	B1	19960821		
	R: BE, DE, ES, FR, GB, NL				
	AU 9178250	A1	19911212	AU 1991-78250	19910606
	AU 634392	B2	19930218		
	ES 2093680	T3	19970101	ES 1991-305109	19910606
	CA 2044106	AA	19911208	CA 1991-2044106	19910607
	CA 2044106	C	20011218		
	US 5225576	A	19930706	US 1991-711775	19910607
	JP 06087848	A2	19940329	JP 1991-163835	19910607
	JP 3078357	B2	20000821		
	RU 2039055	C1	19950709	RU 1991-4895581	19910607
	US 5235074	A	19930810	US 1992-847138	19920306
PRAI	IT 1990-20578	A	19900607		
	US 1991-711775	A3	19910607		

OS MARPAT 116:106275

AB Title compds. (I; R<sub>1</sub>-R<sub>4</sub> = F, Cl, Br, iodo, CF<sub>2</sub>OSO<sub>2</sub>F, SO<sub>2</sub>F, COF, H, perhaloalkyl, oxyperhaloalkyl; R<sub>5</sub>, R<sub>6</sub> = F, CF<sub>3</sub>), were prepd. by reaction of R<sub>5</sub>R<sub>6</sub>C(OF)<sub>2</sub> with R<sub>1</sub>R<sub>2</sub>C:CR<sub>3</sub>R<sub>4</sub> at -140 to 60.degree.. Thus, F<sub>2</sub>C:CFSO<sub>2</sub>F, ClF<sub>3</sub>C, and F<sub>2</sub>C(OF)<sub>2</sub> were condensed into a pyrex flask at liq. N temp; the mixt. was kept 16 h in a mixt. of liq. N and CFCl<sub>3</sub> to give 60% title

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comps. II.

L10 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1980:152092 CAPLUS  
DN 92:152092  
TI Dangerous chemical reactions. 64. Halogenated hydrocarbons. Part 2  
AU Leleu, M. J.  
CS Inst. Natl. Rech. Secur., Paris, Fr.  
SO Cahiers de Notes Documentaires (1979), 97, 603-34  
CODEN: CNDIBJ; ISSN: 0007-9952  
DT Journal; General Review  
LA French  
AB Explosive or similarly vigorous reactions between halogenated hydrocarbons  
and other chems. are described and referenced.

=> log hold

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FULL ESTIMATED COST	126.57	401.05

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L1 69 S TETRAFLUOROETHYLENE AND HYPOFLUORITE  
L2 49 DUP REM L1 (20 DUPLICATES REMOVED)

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FILE 'REGISTRY' ENTERED AT 17:36:53 ON 26 AUG 2003

L3 SCREEN 1942 OR 1992 OR 2006 OR 2016 OR 2021 OR 2026 OR 19  
L4 STRUCTURE UPLOADED  
L5 QUE L4 NOT L3  
L6 0 S L5  
L7 2 S L5 FUL

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L8 83 S 302587-02-6 OR 16282-67-0  
L9 7 S L8 AND (TETRAFLUOROETHYLENE OR DICHLORODIFLUOROETHYLENE)  
L10 6 DUP REM L9 (1 DUPLICATE REMOVED)

=> file reg

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
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=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 1942 OR 1992 OR 2006 OR 2016 OR 2021 OR 2026 OR 1938 OR 1960 OR 1838

L11 SCREEN CREATED

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L12 STRUCTURE UPLOADED

=> que L12 NOT L11

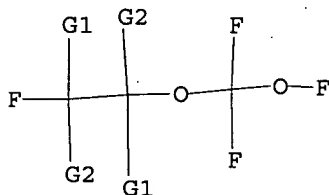
L13 QUE L12 NOT L11

=> d

L13 HAS NO ANSWERS

L11 SCR 1942 OR 1992 OR 2006 OR 2016 OR 2021 OR 2026 OR 1938 O  
R 1960 OR 1838

L12 STR



G1 H, F

G2 H, Cl

Structure attributes must be viewed using STN Express query preparation.

L13 QUE L12 NOT L11

=> s l13

SAMPLE SEARCH INITIATED 18:00:16 FILE 'REGISTRY'

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100.0% PROCESSED 0 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 0 TO 0

PROJECTED ANSWERS: 0 TO 0

L14 0 SEA SSS SAM L12 NOT L11

=> s l13 ful

FULL SEARCH INITIATED 18:00:22 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS

0 ANSWERS



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SEARCH TIME: 00.00.01

L15                    0 SEA SSS FUL L12 NOT L11

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